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DOH-CITRUS REMINDS RESIDENTS OF DANGERS ASSOCIATED WITH FLOODED PRIVATE WELLS

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Florida Department of Health in Citrus County (DOH-Citrus) reminds residents that with recent heavy rains and probable effects from Hurricane Dorian, private wells may be impacted, making well water unsafe. If well casing has been submerged by flood water, either use bottled water, or boil or disinfect all the water you use for drinking, making beverages, cooking, brushing your teeth, washing dishes and washing areas of the skin that have been cut or injured.

Common unscented household bleach (4 to 6 percent) can be used effectively as a chlorine disinfectant. Add 8 drops (about 1/8 teaspoon) of unscented household bleach per gallon of water, then let stand for 30 minutes, repeating the procedure if the water is still cloudy. An alternative disinfecting method involves bringing water to a rolling boil for one minute.

If your well has been flooded, please call the DOH-Citrus Environmental Health Program at 352-513-6100 for information on how to sample your water and where to bring the sample for bacteriological testing. If the test reveals bacteria, the well and water system need to be disinfected.

It is important to disinfect both well and plumbing water with unscented household bleach to ensure that all infectious agents are destroyed. If you have water treatment devices, remove all membranes, cartridges, and filters and replace them after the chlorination process is completed. The amount of chlorine determines the length of time you allow the bleach to remain in your system.

DOH-Citrus recommends the following steps to disinfect a contaminated well:

- **If the water is discolored** before adding the bleach, run the water until it is clear for up to 10 minutes.
- **Turn off and then drain** your hot water heater— bleach is not effective in water above 105 degrees.
- **Remove and replace** charcoal filters after the disinfecting process is completed.
- **To avoid adding contamination** to the well during disinfection, clean the work area around the top of the well. Then remove grease and mineral deposits from accessible parts of the well head and flush the outside surfaces with 1/2 cup of unscented household bleach in 5 gallons of water.

- **Turn off the pump.** Remove the cap or the well plug on the rubber seal. There are many types of well caps and plugs. If you have questions, you should contact a licensed well driller. If you have a submersible pump, you may also want to contact a licensed well driller for advice on disinfection procedures.
- **Consult the bleach chart** and pour the recommended amount of unscented bleach (4 to 6%) solution into the well. Try to coat the sides of the casing as you pour. If you get bleach on the pump or wiring, flush it thoroughly with fresh water to prevent later corrosion.

BLEACH CHART

Well Depth in Feet	Well Diameter in Inches			
	2"	4"	5"	6"
	Amount of Bleach to Use			
20'	1 cup	1 cup	1 cup	1 cup
30'	1 cup	1 cup	1 cup	2 cups
40'	1 cup	1 cup	2 cups	2 cups
50'	1 cup	2 cups	2 cups	3 cups
80'	1 cup	2 cups	1 qt	1 qt
100'	1 cup	3 cups	1 qt	1.5 qts
150'	2 cups	1 qt	2 qts	2.5 qts
200'	3 cups	1.5 qts	2.5 qts	3 qts

Conversions 8 oz = 1 cup / 16 oz = 1 pint = 2 cups

24 oz = 3 cups / 32 oz = 1 quart / 48 oz = 1.5 quarts

64 oz = 2 quarts / 80 oz = 2.5 quarts / 96 oz = 3 quarts

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- **Re-cap or plug the well** opening and wait 30 minutes.
 - **Turn on and, if needed, re-prime the pump.** Open all of the faucets on the system one at a time. Allow the water to run until there is a noticeable smell of bleach. You may also want to flush the toilets. If you have outside faucets, you may want to direct the water away from sensitive plants. If you cannot detect a bleach odor, repeat the disinfecting process.
 - **Turn off all of the faucets** and allow the bleach to remain in the system for at least eight hours.
 - **Backwash water softeners**, sand filters, and iron removal filters with bleach water.
 - **Again, open all the faucets** and run the water until there is no bleach smell—for up to 15 minutes.

After disinfecting your well, the water needs to be tested to verify that it is safe to drink. Although unscented household bleach is effective against microorganisms, it will not remove chemical contamination that may have gotten into your well. Contact the DOH-Citrus at 352-513-6100 for sampling instructions to get your water tested for chemicals if you are concerned. **Chemical sampling fees have not been waived at this time.**

For more information about DOH-Citrus, visit www.CitrusCountyHealth.org or follow us on Twitter at [@FLHealthCitrus](https://twitter.com/FLHealthCitrus).

About the Florida Department of Health

The department, nationally accredited by the [Public Health Accreditation Board](#), works to protect, promote and improve the health of all people in Florida through integrated state, county and community efforts.

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